ABSTRACT OF THE DISCLOSURE

A higher-radix type divider is provided which is capable of obtaining a quotient at a high speed by performing a scaling

5   on a divisor and by representing a partial remainder in a redundant binary notation.

The divider for obtaining the quotient by referring to the divisor and dividend normalized respectively so as to satisfy a range of $1/2^K$ or more and less than $1/2^{K+1}$ (k being a positive

10 integer) and to a length of bits, out of all bits of the partial remainder, defined by a radix for operations and a maximum number of digits, is provided with a scaling factor generating section, a multiplying section, a divisor tripled-number generating section and a repetitive operating section.